

Title (en)
DETECTORS AND ION SOURCES

Title (de)
DETEKTOREN UND IONENQUELLEN

Title (fr)
DÉTECTEURS ET SOURCES IONIQUES

Publication
EP 2156461 A2 20100224 (EN)

Application
EP 08718965 A 20080401

Priority

- GB 2008001153 W 20080401
- GB 0707254 A 20070414

Abstract (en)
[origin: WO2008125804A2] A FAIMS ion mobility spectrometer (1) has an analyte ion source assembly 4 by which an analyte substance is ionized and supplied to the inlet (2) of the spectrometer. The ion source assembly (4) has an upstream source (41) of clean, dry air and two ion sources (43 and 44) of opposite polarity arranged at the same distance along the flow path. The ion sources (43) and (44) are arranged so that the overall charge of the plasma produced is substantially neutral. The analyte substance is admitted via an inlet (61) downstream of the ion sources (43 and 44) and flows into a reaction region (63) of enlarged cross section to slow the flow and increase the time for which the analyte molecules are exposed to the plasma.

IPC 8 full level
H01J 49/10 (2006.01); **H01J 49/00** (2006.01); **H01J 49/16** (2006.01)

CPC (source: EP KR US)
H01J 49/0095 (2013.01 - EP US); **H01J 49/10** (2013.01 - KR US); **H01J 49/14** (2013.01 - US); **H01J 49/145** (2013.01 - EP US); **H01J 49/16** (2013.01 - KR); **H01J 49/107** (2013.01 - EP US); **H01J 49/168** (2013.01 - EP US)

Citation (search report)
See references of WO 2008125804A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
WO 2008125804 A2 20081023; WO 2008125804 A3 20090730; CA 2683913 A1 20081023; CA 2683913 C 20171107; CA 2915927 A1 20081023; CA 2915927 C 20171107; CN 101663726 A 20100303; CN 101663726 B 20121003; EP 2156461 A2 20100224; EP 2156461 B1 20181024; GB 0707254 D0 20070523; JP 2010524199 A 20100715; JP 5242673 B2 20130724; KR 101461481 B1 20141113; KR 20100016279 A 20100212; MX 2009010876 A 20100401; PL 2156461 T3 20190531; RU 2009139407 A 20110527; US 2010276587 A1 20101104; US 2013056632 A1 20130307; US 8299428 B2 20121030; US 8748812 B2 20140610

DOCDB simple family (application)
GB 2008001153 W 20080401; CA 2683913 A 20080401; CA 2915927 A 20080401; CN 200880012057 A 20080401; EP 08718965 A 20080401; GB 0707254 A 20070414; JP 2010503571 A 20080401; KR 20097023188 A 20080401; MX 2009010876 A 20080401; PL 08718965 T 20080401; RU 2009139407 A 20080401; US 201213659586 A 20121024; US 59501408 A 20080401